

## *Curriculum Vitae*

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

### Professional Appointments

- 2018 – Present **Assistant Professor**, Department of Epidemiology and Biostatistics, School of Public Health, Texas A&M University, College Station TX
- 2018 – Present Adjunct Assistant Professor, Section of Tropical Medicine, Department of Pediatrics, Baylor College of Medicine, Houston TX
- 2021 – Present Adjunct Assistant Professor, National School of Tropical Medicine, Baylor College of Medicine, Houston TX

### Education

INSTITUTION AND LOCATION	DEGREE	GRADUATION	FIELD OF STUDY
The University of Texas at Austin Austin, Texas	BS	1998	Biology: Ecology, Evolution & Conservation
The University of Texas Health Science Center School of Public Health Houston, Texas	MPH	2009	Epidemiology Major: Infectious Diseases Concentration: Global Health Thesis: <i>Antibody response to Panton-Valentine Leukocidin, a Staphylococcus aureus virulence factor, in pediatric patients from Texas Children's Hospital in Houston, Texas</i>
The University of Texas Health Science Center School of Public Health Houston, Texas	PhD	2014	Epidemiology Major: Field Epidemiology Minor: Biostatistics Thesis: <i>Prevalence and antibiotic resistance profiles of Staphylococcus aureus colonizing HIV-infected adults in Botswana and risk factors for colonization</i>
Baylor College of Medicine Houston, Texas	Postdoc	2017	<i>Investigation into the Epidemic of Unexplained Kidney Disease in Nicaragua</i>
Gorgas Memorial Institute of Tropical and Preventive Medicine Lima, Peru	DTMH	2018	Diploma in Tropical Medicine & Hygiene

### Awards and Recognitions

- 2022 Protégé, The Academy of Medicine, Engineering & Science of Texas
- 2021 Nominee, Edith & Peter O'Donnell Award, The Academy of Medicine, Engineering & Science of Texas
- 2021 Faculty Inductee, Alpha Tau Chapter, Delta Omega Honorary Society, Association for Schools & Programs of Public Health
- 2021 Healthcare Hero, Texas A&M Foundation
- 2021 Honorable recognition, State Legislature of Texas
- 2021 100 Best things in Texas, Texas Monthly Magazine

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- 2015 Annual Travel Award, Committee on Global Health, American Society of Tropical Medicine & Hygiene  
2013 Palmer Beasley Global Health Grant, The University of Texas School of Public Health  
2012 Doctoral Dissertation Research Award, The University of Texas School of Public Health

### Peer-Reviewed Publications (\*denotes mentee; †corresponding author)

- 2022 Christopher M Roundy, Sarah A. Hamer, Italo B. Zecca, Edward B. Davila, Lisa D. Auckland, Wendy Tang, Haley Gavranovic, Sonja L. Swiger, Jeffrey K. Tomberlin, **Rebecca SB Fischer**, Alex Pauvolid-Corrêa, Gabriel L. Hamer (2021). No Evidence of SARS-CoV-2 Among Flies or Cockroaches in households where COVID-19 positive cases resided. *Journal of Medical Entomology* ([Preprint](#)) *In Press*.
- 2021 Strasma, A. \*, Worrall, H. \*, Vangala, C., Silva, R., Mandayam, S., Murray, K.O., **Fischer, RSB**. Urinary findings among adults and children in a region of Nicaragua with a high burden of Mesoamerican Nephropathy. *Kidney International Reports* 7(2): 327-329. (DOI: [10.1016/j.ekir.2021.11.015](https://doi.org/10.1016/j.ekir.2021.11.015) ).
- 2021 Byron Flores, Eduardo Ramírez, Adonis Moncada, Nefir Salinas, Rebecca Fischer, Carmen Hernández, Brenda Mora-Sanchez, Jessica Sheleby-Elías, William Jiron, J.L. Balcazar. Antimicrobial effect of *Moringa oleifera* seed powder against *Vibrio cholerae* isolated from the rearing water of shrimp (*Penaeus vannamei*) postlarvae. *Letters in Applied Microbiology* 74: 238-246. ([doi.org/10.1111/lam.13604](https://doi.org/10.1111/lam.13604))
- 2021 Benika Dixon\*, Rebecca SB Fischer†, Hongwei Zhao, Catherine O’Neal, James Clugston, Shawn Gibbs. Contact and SARS-CoV-2 Infections Among College Football Athletes in the Southeastern Conference During the COVID-19 Pandemic. *JAMA Network Open* 4(10): e2135566 (DOI: [10.1001/jamanetworkopen.2021.35566](https://doi.org/10.1001/jamanetworkopen.2021.35566))
- 2021 Benjamin W. Neuman, Wesley A. Brashear, Marcel Brun, Sankar P. Chaki, Rebecca SB Fischer, Sierra J. Guidry, Joshua Hill, Andrew E. Hillhouse, Charles D. Johnson, Melissa M. Kahl-McDonagh, Richard P. Metz, Allison C. Rice-Ficht, Tiffany A. Skaggs, Matthew A. Stull, David W. Threadgill, Kurt Zuelke. Case Report: Paucisymptomatic College-Age Population as a Reservoir for Potentially Neutralization-Resistant Severe Acute Respiratory Syndrome Coronavirus 2 Variants. *American Journal of Tropical Medicine & Hygiene* 105(5): 1227-1229. (DOI: 10.4269/ajtmh.21-0542).
- 2021 Sarah A. Hamer, Alex Pauvolid-Corrêa, Italo B. Zecca, Edward Davila, Lisa D. Auckland, Christopher M. Roundy, Wendy Tang, Mia Torchetti, Mary Lea Killian, Melinda Jenkins-Moore, Katie Mazingo, Yao Akpalu, Ria R. Ghai, Jessica R. Spengler, Casey Barton Behravesh, **Rebecca SB Fischer**, Gabriel L. Hamer. SARS-CoV-2 Infections and Viral Isolations among Serially Tested Cats and Dogs in Households with Infected Owners in Texas, USA. *Viruses* 13(5), 938. (DOI: [doi.org/10.3390/v13050938](https://doi.org/10.3390/v13050938)).
- 2021 Sarah A. Hamer, Ria R. Ghai, Italo B. Zecca, Lisa D. Auckland, Christopher M. Roundy, Edward Davila, Rachel Busselman, Wendy Tang, Alex Pauvolid-Corrêa, Mary Lea Killian, Melinda Jenkins-Moore, Mia Torchetti, Suelee Robbe Austerman, Ailam Lim, Yao Akpalu, **Rebecca SB Fischer**, Casey Barton Behravesh, Gabriel L. Hamer. SARS-CoV-2 B.1.1.7 variant of concern detected in a pet dog and cat after exposure to a person with COVID-19, USA. *Transboundary and Emerging Diseases* 2021 May; *Epub ahead of Print* (DOI: [10.1111/tbed.14122](https://doi.org/10.1111/tbed.14122)).
- 2021 Hongwei Zhao, Naveed N Merchant, Alyssa McNulty\*, Tiffany A Radcliff, Murray J Cote, **Rebecca Fischer**, Huiyan Sang, Marcia G Ory. COVID-19: Short term prediction model using daily incidence data. *PLOS ONE* 16(4). (DOI: [doi.org/10.1371/journal.pone.0250110](https://doi.org/10.1371/journal.pone.0250110)).

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- 2021 Byron Flores Somarriba, Jessica Sheleby-Elias, Tania Pérez-Sánchez, **Rebecca Fischer**, José Múzquiz, Héctor Fuertes, Nabil Halaihel, William Jirón, Christiane Duttmann. Identification of *Leptospira* spp in rodents captured during human leptospirosis outbreaks in Nicaragua. *EcoHealth* 17(4):469-476. <https://pubmed.ncbi.nlm.nih.gov/33834316/> (PMID: 33834316; DOI: 10.1007/s10393-021-01520-4).
- 2020 **Fischer, RSB**, Sanderson, W., Costa, M., Mandayam, S., Chavarria, D., Murray, K.O. Evidence of nickel and other trace elements and their relationship to clinical findings in acute Mesoamerican Nephropathy: A case-control analysis. *Plos One*, 20 Nov 10. (PMID: 33170853, DOI: 10.1371/journal.pone.0240988; <https://pubmed.ncbi.nlm.nih.gov/33170853/>).
- 2020 Weihshueh A Chiu, **Rebecca SB Fischer**, Martial L Ndeffo Mbah. State-level needs for social distancing and contact tracing to contain COVID-19 in the United States. *Nature Human Behaviour* 4(10): 1080-1090. (DOI: 10.1038/s41562-020-00969-7; <https://www.nature.com/articles/s41562-020-00969-7>).
- 2020 Lisa Isrealson, Damien Chaussabel, **Rebecca Fischer**, Heather Moore, D. Ashley Robinson, Jesse W. Dunkle, Heather Essigmann, Sharron Record, and Eric Brown. Characterization of Peripheral Blood Mononuclear Cells Gene Expression Profiles of Pediatric *Staphylococcus aureus* Persistent and Non-Carriers Using a Targeted Assay. *Microbes and Infection*, 22 (10): 540-549. (DOI: <https://doi.org/10.1016/j.micinf.2020.07.006>).
- 2018 **Fischer, RSB**, Vangala, C., Mandayam, S., Garcia, L.L.\*, Chavarria, D., Palma, L., Murray, K.O.. Clinical Markers to Predict Progression from Acute to Chronic Kidney Disease in Mesoamerican Nephropathy. *Kidney International*, 94(6): 1205-1216. (DOI 10.1016/j.kint.2018.08.020; [https://www.kidney-international.org/article/S0085-2538\(18\)30607-0/fulltext](https://www.kidney-international.org/article/S0085-2538(18)30607-0/fulltext))
- 2018 Sahni, L.C., **Fischer, RSB**, Gorchakov, R., Berry, R.M., Murray, K.O., Boom, J. (2018). Arboviral surveillance among pediatric patients with acute febrile illness in Houston, Texas. *American Journal of Tropical Medicine & Hygiene*, 99(2): 413-416. (DOI: [10.4269/ajtmh.17-0891](https://doi.org/10.4269/ajtmh.17-0891); <http://www.ajtmh.org/content/journals/10.4269/ajtmh.17-0891>).
- 2017 **Fischer, RSB**, Vangala, C., Truong, L., Chavarria, D., Granera, O., Fonseca, M., Guerra Baez, A., Garcia, F., Garcia-Trabanino, R., Mandayam, S., Murray, K.O.. Early detection of acute tubulointerstitial nephritis in the genesis of Mesoamerican nephropathy. *Kidney International*, 90(3): 638–647. (DOI: 10.1016/j.kint.2017.09.012; [http://www.kidney-international.org/article/S0085-2538\(17\)30726-3/fulltext](http://www.kidney-international.org/article/S0085-2538(17)30726-3/fulltext)).
- 2017 **Fischer, RSB**, Mandayam, S., Chavarria, D., Vangala, C., Garcia, M.N., Garcia, L.L.\*, Palma, L., Garcia-Trabanino, R., Murray, K.O.. Clinical Evidence of Acute Mesoamerican Nephropathy. *American Journal of Tropical Medicine & Hygiene*, 97(4): 1247-1256. (DOI:10.4269/ajtmh.17-0260; <http://www.ajtmh.org/content/journals/10.4269/ajtmh.17-0260>).
- 2017 **Fischer, Rebecca SB**, Flores Somarriba, Byron. Diagnostic Testing for *Leptospira* Infections in Areas of Endemicity Requires Urgent Attention. *Current Reports in Tropical Medicine*, 4(2): 57-61. (DOI: 10.1007/s40475-017-0110-x; <https://link.springer.com/article/10.1007/s40475-017-0110-x>).
- 2017 Byron Flores Somarriba, Jessica Sheleby-Elias, **Rebecca SB Fischer**, William Jirón, Christiane Duttmann. *Leptospira* in Central America: Techniques for Diagnosis and Molecular Characterization. *Current Reports in Tropical Medicine*, 4(2): 70-76. (DOI:10.1007/s40475-017-0106-6; <https://link.springer.com/article/10.1007/s40475-017-0106-6>).
- 2017 **Fischer, RSB** and Reid, M.J.A., Mannathoko, N., Muthoga, C., Essigmann, H., McHugh, E., Brown, E.L., Steenhoff, A.. Prevalence of *Staphylococcus aureus* nasal carriage in HIV-infected and HIV-uninfected

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- children in Botswana. *The American Journal of Tropical Medicine and Hygiene*, 96(4): 795-801. (DOI: 10.4269/ajtmh.16-0650; <http://www.ajtmh.org/content/early/2017/02/02/ajtmh.16-0650.full.pdf>)
- 2017 Reid, M.J., Steenhoff, A, Mannathoko, N., McHugh, E., Muthoga, C., Brown, E.L., **Fischer, RSB**. *Staphylococcus aureus* Nasal Colonization among HIV-Infected Adults in Botswana: Prevalence and Risk Factors. *AIDS Care*. (DOI: 10.1080/09540121.2017.1282600; PMID: 28127988; [www.tandfonline.com/doi/abs/10.1080/09540121.2017.1282600?journalCode=caic20](http://www.tandfonline.com/doi/abs/10.1080/09540121.2017.1282600?journalCode=caic20))
- 2016 Tolo, Isaiah, Thomas, Jonathan C, **Fischer, Rebecca SB**, Brown, Eric L, Gray, Barry M, Robinson, D Ashley (2016). Do *Staphylococcus epidermidis* genetic clusters predict isolation sources? *Journal of Clinical Microbiology*, 54(7):1711-1719. (PMID: 27076664, PMCID: PMC4922092, doi: 10.1128/JCM.03345-15; [www.ncbi.nlm.nih.gov/pmc/articles/PMC4922092/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4922092/))
- 2015 Brown, E.L., Below, J.E., **Fischer, RSB**, Essigmann, H.T., Hu, H., Huff, C., Robinson, D.A., Petty, L.E., Aguilar, D., Bell, G.I., Hanis, C.L.. Genome-wide association study of *Staphylococcus aureus* carriage in a community-based sample of Mexican-Americans in Starr County, Texas. *PLOS ONE*, 10(11). (PMID: 26569114, PMCID: PMC4646511, doi: 10.1371/journal.pone.0142130; <http://dx.doi.org/10.1371/journal.pone.0142130>)
- 2015 Murray, K.O., **Fischer, RSB**, Chavarria, D., Duttman, C., Garcia, M.N., Gorchakov, R., Hotez, P.J., Jiron, W., Leibler, J.H., Lopez, J., Mandayam, S., Marin, A., Sheleby, J.. Mesoamerican Nephropathy: A Neglected Tropical Disease with an Infectious Etiology? *Microbes and Infection*, 17 (10), 671–675. (PMID: 26320026, doi: 10.1016/j.micinf.2015.08.005; [www.sciencedirect.com/science/article/pii/S1286457915001653](http://www.sciencedirect.com/science/article/pii/S1286457915001653))
- 2011 Montealegre, J. R., Koers, E. M., **Bryson, R. S.**, & Murray, K. O.. An Innovative Public Health Preparedness Training Program for Graduate Students. *Public Health Reports*, 126 (3), 441-446. (PMID: 21553674, PMCID: PMC3072870; [www.ncbi.nlm.nih.gov/pmc/articles/PMC3072870/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3072870/))
- 2010 Koers, E. M., Montealegre, J. R., **Bryson, R. S.**, & Murray, KO. Experiences of The University of Texas School of Public Health's Student Epidemic Intelligence Society in Strengthening Public Health Response and Epidemiologic Capacity. *Public Health Reports*, 125(6), 922-928. (PMID: 21121239, PMCID: PMC2966679; DOI: 10.1177/003335491012500622; [www.ncbi.nlm.nih.gov/pmc/articles/PMC2966679/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2966679/))
- 2009 Brown, E. L., Bowden, G., **Bryson, RS**, Hulten, K. G., Bordt, A., Forbes, A., Kaplan, S. L.. Pediatric Antibody Response to Community-Acquired *Staphylococcus aureus* infection is Directed to Pantone-Valentine Leukocidin. *Clinical and Vaccine Immunology*, 16 (1), 139-141. (PMCID: PMC2620665; [www.ncbi.nlm.nih.gov/pmc/articles/PMC2620665/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2620665/))
- 2009 Montealegre, J. R., Emert, J. M., Lackey, S. C., **Bryson, RS**, & Murray, KO. A Graduate Student Epidemiology Response Program's Partnership with Local Health Departments to Meet H1N1 Surge Capacity Needs. *Texas Public Health Journal*, 61 (4), 33-34. ([www.texaspha.org/page/PastIssues](http://www.texaspha.org/page/PastIssues))

### Refereed Abstract Publications (\*denotes mentee)

- 2020 Alyssa McNulty\*, Rebecca Fischer, Allison Lino, Kristy Murray, Timothy Erickson, Shannon Ronca, Sarah M. Gunter. Seroprevalence and Epidemiology of Typhus Group Rickettsia Infection in Texas. *International Journal of Infectious Diseases*, Dec 2020. (DOI: <https://doi.org/10.1016/j.ijid.2020.09.419>).
- 2019 **RS Fischer**, W Sanderson, M Costa, KO Murray. Investigating exposure to heavy metals as a potential etiology of Mesoamerican Nephropathy, an unexplained epidemic kidney disease in Latin America.

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- American Journal of Tropical Medicine & Hygiene, 101 (5S): 581-581. (DOI: <https://doi.org/10.4269/ajtmh.abstract2019>)
- 2019 **RS Fischer**, N Mannathoko, HT Essigmann, OD Alonge\*, EL Brown (2019). Borderline methicillin resistant staphylococcus aureus, an underappreciated and emerging public health threat. American Journal of Tropical Medicine & Hygiene, 101 (5S): 339-339. (DOI: <https://doi.org/10.4269/ajtmh.abstract2019>)
- 2019 J Starling\*, A Strasma\*, R Silva, **RS Fischer**. Healthy community stool screenings in rural Nicaragua reveal high prevalence of protozoal intestinal parasites and polyparasitism. American Journal of Tropical Medicine & Hygiene, 101 (5S): 177-177. (DOI: <https://doi.org/10.4269/ajtmh.abstract2019>)
- 2019 A Strasma\*, H Worrall\*, S Mandayam, R Silva, **RS Fischer** (2019). Urinary findings at healthy community screenings in a region of Nicaragua with a high burden of unexplained kidney disease. American Journal of Tropical Medicine & Hygiene, 101 (5S): 351-351. (DOI: <https://doi.org/10.4269/ajtmh.abstract2019>)
- 2018 **Rebecca Fischer**, Chandan Vangala, Sreedhar Mandayam, Kristy Murray. Clinical Predictors for Progression to Chronic Kidney Disease in Mesoamerican Nephropathy. American Journal of Kidney Diseases, 71 (4): 537. (DOI 10.1053/j.ajkd.2018.02.095; <https://www.sciencedirect.com/science/article/pii/S0272638618302221?via%3Dihub>).
- 2018 Anna Sulimirski\*, Hannah Worrall\*, Sreedhar Mandayam, **Rebecca Fischer**. Clinical Urine Findings in a Community with a High Burden of Mesoamerican Nephropathy. American Journal of Kidney Diseases, 71(4) 587. (DOI 10.1053/j.ajkd.2018.02.293; <https://www.sciencedirect.com/science/article/pii/S0272638618304244>).
- 2017 **Fischer RSB**, Duttman C, Jiron Toruño W, Garcia MN, Gorchakov R, Gunter SM, Murray KO. Documenting the Seroprevalence of Zoonotic and Vector Borne Diseases in Rural Nicaragua. Am J Trop Med Hyg. 2017;95(5):172. (DOI:10.4269/ajtmh.abstract2016; <http://www.ajtmh.org/content/journals/10.4269/ajtmh.abstract2016>)
- 2016 **Fischer, Rebecca SB**, Mandayam, Sreedhar, Garcia, Melissa N, Gorchakov, Rodion, Chavarria, Denis, Murray, Kristy O. Mesoamerican Nephropathy in Nicaragua: Interstitial Nephritis of Infectious Origin? American Journal of Kidney Diseases, 67(5): A45. ([www.ajkd.org/article/S0272-6386\(16\)00331-0/abstract](http://www.ajkd.org/article/S0272-6386(16)00331-0/abstract))

### Non-Peer Reviewed Publications (\*denotes mentee; ±corresponding author)

- 2022 Catherine O'Neal, Benika Dixon, **Rebecca SB Fischer**<sup>±</sup>. College Athletics Programs thwart the spread of SARS-CoV-2 during the COVID-19 Pandemic. JAMA Network Open 5(2):e2147810. **INVITED COMMENTARY**. [doi:10.1001/jamanetworkopen.2021.47810](https://doi.org/10.1001/jamanetworkopen.2021.47810)
- 2020 Walter Thomas Casey, Marcia G. Ory, **Rebecca SB Fischer**. Colleges and the Thanksgiving COVID-19 risk: Fauci's right – holiday plans may have to change. The Conversation; 16 Oct 2020. <https://theconversation.com/colleges-and-the-thanksgiving-covid-19-risk-faucis-right-holiday-plans-may-have-to-change-148230>.
- 2020 **Rebecca SB Fischer**. Fleeing from the coronavirus is dangerous for you, the people you encounter along the way and wherever you end up. The Conversation; 23 Mar 2020. <https://theconversation.com/fleeing-from-the-coronavirus-is-dangerous-for-you-the-people-you-encounter-along-the-way-and-wherever-you-end-up-133995>.

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Also indexed under Coronavirus: du danger de voyager en pleine epidemie. *The Conversation Canada*; 23 Mar 2020.

- 2020 **Rebecca SB Fischer**. What's the difference between pandemic, epidemic and outbreak? *The Conversation*; 09 Mar 2020. <https://theconversation.com/whats-the-difference-between-pandemic-epidemic-and-outbreak-133048>.  
Also indexed under *Apa bedanya pandemic, epidemic, dan wabah?* published by *The Conversation Indonesia*; 11 Mar 2020.
- 2020 David J. Friedman, Andreas Cardenas, **Rebecca Fischer**, Nora Franceschini, Daniel R. Brooks. Molecular Approaches to CKDu: Genetics, Epigenetics, and Infectious Disease. In Crowe J.L., Joubert B.R., Brooks. D.R. (Eds.). In Report from the Third International Workshop on Chronic Kidney Diseases of Uncertain/Non-Traditional Etiology in Mesoamerica and Other Regions. San José, Costa Rica: SALTRA.
- 2020 S Anand, B Caplin, M Gonzalez-Quiroz, SL Schensul, V Bhalla, et al. Epidemiology, molecular, and genetic methodologies to evaluate causes of CKDu around the world: report of the Working Group from the ISN International Consortium of Chronic Kidney Disease of Unknown Etiology. *Kidney international* 96 (6), 1254-1260.

### Manuscripts Under Review (\*denotes mentee; ±corresponding author)

Under Review Murray, K.O., Vilchez, S., Kairis, RB, Lino, A, Ronca, S, **Fischer, RSB**. Dengue Clinical Presentation and Viral Persistence in a Traveler returning from Nicaragua during an Epidemic Year. *AJTMH*.

### Manuscripts in Preparation (\*denotes mentee; ±corresponding author)

1. **Fischer, RSB**, Worrall, H.\*, Vangala, C., Nolan, M.S., Middleton, L. \*, Garcia, L.L. \*, Mandayam, S., Chavarria, D., Murray, K.O. (2021). Early Clinical Presentation in Mesoamerican Nephropathy: Validation of a proposed case definition in a large Historic Cohort in Nicaragua. *American Journal of Tropical Medicine & Hygiene*. *In Preparation*
2. Preston, L. \*, **Fischer, RSB**, Murray, K.O., Erickson, T., Midturi, J., Horney J. (2021). Typhus Group Rickettsiosis in Central Texas, 2008-2018. *Emerging Infectious Diseases*. *In Preparation*
3. Aisha Yusuf\*, Loni Taylor\*, Hongwei Zhao, Melissa Marx, Benika Dixon\*, Tykeara Mims\*, Emily Frost, Patrick Tarwater, Shawn Gibbs, Annette Regan, **Rebecca SB Fischer** (2021). Clinical and Epidemiologic features of SARS-CoV-2 Infection in University Students. *Emerging Infectious Diseases*. *In Preparation*
4. Emily Frost, **Rebecca SB Fischer**, Patrick Tarwater, Benika Dixon\*, Hongwei Zhao, Tykeara Mims\*, Shawn Gibbs, Melissa Marx (2021). Strategy for Conducting Campus-wide SARS-CoV-2 Surveillance for COVID-19 Containment at a Large U.S. Academic Institution. *In Preparation*
5. **Rebecca SB Fischer**±, Benika Dixon\*, Catherine O'Neal, James Clugston, Hongwei Zhao, Shawn Gibbs (2021). SARS-CoV-2 Infections and In-Game Exposures in College Basketball during the COVID-19 Pandemic. *JAMA* *In Preparation*

### Conference Presentations (\*denotes mentee)

1. Alyssa McNulty-Nebel\*, Yao Akpalu, Hongwei Zhao, Angela Clendenin, Martial Ndeffo, **Rebecca Fischer** (2022). *Impact of COVID-19 in a College Town in Brazos Valley, Texas*. The James Steele Conference on Diseases in Nature Transmissible to Man (DIN), Dallas, TX, May 2022. *ACCEPTED*



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2. Loni Taylor\*, Tykeara Mims\*, Aishatu Yusuf\*, Benika Dixon, **Rebecca Fischer** (2021). *Aggressive Community and Workplace Spread of SARS-CoV-2 B.1.1.7 and Severe Illness on a large University Campus*. American Society of Tropical Medicine and Hygiene 68<sup>th</sup> Annual Meeting, National Harbor, Maryland USA, Nov 2021.
3. Alyssa McNulty\*, Tykeara Mims\*, **Rebecca SB Fischer**. *Spatial description of COVID-19 in a Brazos Valley, a 7-county region of Central Texas*. Texas A&M University National Public Health Week, College Station, Texas, Apr 2021.
4. Angela Clendenin and **Rebecca Fischer**. *The Power of Grassroots Partnerships in a Pandemic*. Texas A&M University Conference on Preparedness Response Innovation Mitigation Recovery (PRIMR), College Station, Texas, Jan 2021.
5. **RSB Fischer**, Samuel Vilchez, Rebecca Kairis, Allison Lino, Adrianna Maliga, Shannon Ronca, Kristy Murray. *Natural History of Dengue Virus serotype 2 Infection with Viral Persistence*. International Congress on Infectious Diseases, Kuala Lumpur, MALAYSIA, Sep 2020.
6. Alyssa McNulty\*, **Rebecca Fischer**, Allison Lino, Kristy Murray, Timothy Erickson, Shannon Ronca, Sarah M. Gunter. *Seroprevalence and Epidemiology of Typhus Group Rickettsia Infection in Texas*. International Congress on Infectious Diseases, Kuala Lumpur, MALAYSIA, Sep 2020.
7. Oluwakemi D. Alonge\*, **Rebecca SB Fischer**, Heather T. Essigmann, Eric L. Brown. *Antibiotic resistance profiles in Borderline methicillin resistant Staphylococcus aureus*. TAMU SPH National Public Health Week, College Station, Texas, Apr 2020. *Awarded 2<sup>nd</sup> Place*
8. Archana Tale\*, **Rebecca SB Fischer**. *Systematic Review – Burden of Mesoamerican Nephropathy in Central America*. TAMU SPH National Public Health Week, College Station, Texas, Apr 2020.
9. Jolie Starling\*, Anna Strasma, Reyna Silva, **Rebecca SB Fischer**. *Community health screenings in rural Nicaragua reveal high prevalence of protozoal intestinal parasites and polyparasitism*. TAMU SPH National Public Health Week, College Station, Texas, Apr 2020.
10. Alyssa McNulty\*, Tesha Landry\*, Brittany Beasley, Santiago Canel Soria, Samuel Karsky\*, Shea Reuter, **Rebecca Fischer**. *The association between weather and incidence of zoonotic & vector-borne diseases in the U.S*. TAMU SPH National Public Health Week, College Station, Texas, Apr 2020.
11. Annette K. Regan, Madhuri Uppuluri\*, Ravneet Kaur, **RSB Fischer**. *Maternal morbidity & mortality associated with Dengue Virus Infection during Pregnancy: A systematic review*. 8<sup>th</sup> Annual Houston Global Health Collaborative Conference, Houston, TX, March 2020.
12. Alyssa McNulty\*, Tesha Landry\*, Brittany Beasley\*, Santiago Canel Soria\*, Samuel Karsky\*, Shea Reuter, **Rebecca Fischer**. *The association between weather and incidence of zoonotic & vector-borne diseases in the U.S*. High Impact Practices in the States (HIPS) National Conference, College Station, Texas, Feb 2020.
13. Anna Strasma, Hannah Worrall, Sreedhar Mandayam, Chandan Vangala, Reyna Silva, Kristy O. Murray, **Rebecca SB Fischer**. *Urine testing of community residents in a region of Nicaragua with a high burden of Mesoamerican Nephropathy reveal background systemic inflammatory signs rapidly increase in younger ages*. American Society of Nephrology Kidney Week 2019, Washington, DC, Nov 2019.
14. Sarah M. Gunter, Allison Lino, Alyssa McNulty\*, **Rebecca Fischer**, Timothy Erickson, Shannon Ronca, Alex Carisey, Kristy O. Murray. *Investigating the risk of spotted fever group rickettsiosis in Texas hunters*. American Society of Tropical Medicine and Hygiene 68<sup>th</sup> Annual Meeting, National Harbor, Maryland USA, Nov 2019.
15. **Rebecca SB Fischer**, Naledi Mannathoko, Heather T. Essigmann, Oluwakemi D. Alonge\*, Eric L. Brown. *Borderline methicillin resistant Staphylococcus aureus, an underappreciated and emerging public health threat*. American Society of Tropical Medicine and Hygiene 68<sup>th</sup> Annual Meeting, National Harbor, Maryland USA, Nov 2019.

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**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

16. **Rebecca SB Fischer**, Wayne Sanderson, Max Costa, Kristy O. Murray. Investigating Exposure to Heavy Metals as a potential etiology of Mesoamerican Nephropathy, an unexplained epidemic kidney disease in Latin America. American Society of Tropical Medicine and Hygiene 68<sup>th</sup> Annual Meeting, National Harbor, Maryland USA, Nov 2019.
17. Anna Strasma\*, Hannah Worrall\*, Sreedhar Mandayam, Reyna Silva, Kristy Murray, **Rebecca SB Fischer**. Urinary findings at healthy community screenings in a region of Nicaragua with a high burden of unexplained kidney disease. American Society of Tropical Medicine and Hygiene 68<sup>th</sup> Annual Meeting, National Harbor, Maryland USA, Nov 2019.
18. Jolie Starling\*, Anna Strasma\*, Reyna Silva, **Rebecca SB Fischer**. Healthy community stool screenings reveal high prevalence of protozoal intestinal parasites and polyparasitism in rural Nicaragua. American Society of Tropical Medicine and Hygiene 68<sup>th</sup> Annual Meeting, National Harbor, Maryland USA, Nov 2019.
19. L.E. Preston\*, **Rebecca SB Fischer**, Kristy O. Murray, John Midturi, Jennifer Horney. Typhus Group Rickettsiosis in Central Texas. American Society of Tropical Medicine and Hygiene 68<sup>th</sup> Annual Meeting, National Harbor, Maryland USA, Nov 2019.
20. Jolie Starling\*, Anna Strasma, Reyna Silva, **Rebecca SB Fischer**. Community health screenings in rural Nicaragua reveal high prevalence of protozoal intestinal parasites and polyparasitism. The James Steele Conference on Diseases in Nature Transmissible to Man (DIN), Houston, TX, May 2019.
21. **Fischer, R.S.B**, Gorchakov, R., Murray, K.O. Mesoamerican Nephropathy is not explained by acute infection. Consortium for the Epidemic of Nephropathy in Central America and Mexico (CENCAM) & SALTRA Joint Workshop with PAHO & NIEHS: Third International Workshop on Chronic Kidney Diseases of Uncertain/Non-traditional Etiology in Mesoamerica and Other Regions, San Jose, COSTA RICA, Mar 2019
22. **Rebecca SB Fischer**, Wayne Sanderson, Andrew Fire, Sreedhar Mandayam MD, Kristy O. Murray. Steps toward solving a decades-long Medical Mystery: In search of the etiology of Mesoamerican Nephropathy. CENCAM & SALTRA Joint Workshop with PAHO & NIEHS: Third International Workshop on Chronic Kidney Diseases of Uncertain/Non-traditional Etiology in Mesoamerica and Other Regions, San Jose, COSTA RICA, Mar 2019
23. Strasma, A.\*, Worrall, H.\*, Vangala, C., Silva, R., Mandayam, S., Murray, K.O., **Fischer, RSB** Urinary findings among adults and children in a region of Nicaragua with a high burden of Mesoamerican Nephropathy. CENCAM & SALTRA Joint Workshop with PAHO & NIEHS: Third International Workshop on Chronic Kidney Diseases of Uncertain/Non-traditional Etiology in Mesoamerica and Other Regions, San Jose, COSTA RICA, Mar 2019
24. **Fischer, RSB**, Sanderson, W., Mandayam, S., Murray, K.O. Nickel exposure among Agricultural Workers is a Likely Cause of the Mesoamerican Nephropathy Epidemic. CENCAM & SALTRA Joint Workshop with PAHO & NIEHS: Third International Workshop on Chronic Kidney Diseases of Uncertain/Non-traditional Etiology in Mesoamerica and Other Regions, San Jose, COSTA RICA, Mar 2019.
25. Anna Strasma\*, **Rebecca SB Fischer**, Sreedhar Mandayam. The epidemic of kidney disease of unknown etiology in Central America is an important cause for emergent dialysis utilization in Houston, Texas. CENCAM & SALTRA Joint Workshop with PAHO & NIEHS: Third International Workshop on Chronic Kidney Diseases of Uncertain/Non-traditional Etiology in Mesoamerica and Other Regions, San Jose, COSTA RICA, Mar 2019.
26. Anna Strasma\*, **Rebecca SB Fischer**, Sreedhar Mandayam. The epidemic of kidney disease of unknown etiology in Central America is an important cause for emergent dialysis utilization in Houston, Texas. University of Texas Medical Branch Second Annual Conference on the Health of Migrants; Galveston, TX, Dec 2018.
27. Megan L. McKenna\*, Sarah Gunter, Melissa Nolan, **Rebecca SB Fischer**, Denis Chavarria, Lesbia Palma, Kristy O. Murray. Prevalence and Risk Factors of Chagas Disease Among Agricultural Workers in Northwestern Nicaragua.



## *Curriculum Vitae*

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

Poster Presentation, American Society of Tropical Medicine and Hygiene Annual Meeting, New Orleans, LA, Oct 2018.

28. **Rebecca SB Fischer**, Nicole Delgado\*, Rodion Gorchakov, Shannon Ronca\*, Kristy O. Murray. Leptospirosis among agricultural workers in Nicaragua: Incidence, prevalence, and risk factors. Pedro Kourí Tropical Medicine Institute (IPK) Espiroquetas Habana 2018/Spirochetes Havana 2018, Havana, CUBA, May 2018.
29. Nicole Delgado\*, **Rebecca SB Fischer**, Rodion Gorchakov, Shannon Ronca, Kristy O. Murray. Risk factors for Hantavirus among a rural, agricultural community at high risk of zoonotic infection. The James Steele Conference on Diseases in Nature Transmissible to Man (DIN), Houston, TX, May 2018.
30. Anna Sulimirski\*, Hannah Worrall\*, Sreedhar Mandayam, Kristy O. Murray, **Rebecca SB Fischer**. Urinary findings among adult and pediatric community members in a region of Nicaragua with a high burden of Mesoamerican Nephropathy. National Kidney Foundation 2018 Spring Clinical Meetings, Austin, TX, Apr 2018.
31. Hannah Worrall\*, **Rebecca SB Fischer**, Sreedhar Mandayam, Anna Sulimirski. Evidence of urinary markers for early renal disease in the community in a highly endemic region of Mesoamerican Nephropathy in Nicaragua. National Kidney Foundation 2018 Spring Clinical Meetings, Austin, TX, Apr 2018.
32. Hannah Worrall\*, **Rebecca SB Fischer**, Melissa Nolan, Linda L. Garcia, Lauren Middleton, Sreedhar Mandayam, Kristy O. Murray. Validation of a Clinical Case Definition of Acute Mesoamerican Nephropathy using a Large Retrospective Cohort in Nicaragua. Poster Presentation, American Society of Tropical Medicine and Hygiene Annual Meeting, Baltimore, MD, Nov 2017.
33. **Rebecca SB Fischer**, Chandan Vangala, Sreedhar Mandayam, Denis Chavarria, Kristy O. Murray. Identifying Clinical Predictors for Progression from Acute Kidney Injury to Chronic Kidney Disease in Mesoamerican Nephropathy (MeN). Podium Presentation, American Society of Tropical Medicine and Hygiene Annual Meeting, Baltimore, MD, Nov 2017.
34. **Rebecca SB Fischer**, Kaila Fagerstrom\*, Denis Chavarria, Sreedhar Mandayam, Melissa Nolan, Linda L. Garcia, Ruth Montenegro, Kristy O. Murray. Risk Factors for Acute Mesoamerican Nephropathy in Nicaraguan Sugar Workers. Podium Presentation, American Society of Tropical Medicine and Hygiene Annual Meeting, Baltimore, MD, Nov 2017.
35. **Rebecca SB Fischer**, Chandan Vangala, Sreedhar Mandayam, Denis Chavarria, Kristy O. Murray. Clinical Factors Associated with Progression from Acute Mesoamerican Nephropathy to Chronic Kidney Disease. Poster Presentation, American Society of Nephrology Kidney Week 2017, New Orleans, LA, Nov 2017.
36. Hannah Worrall\*, **Rebecca SB Fischer**, Melissa N Garcia, Linda L. Garcia\*, Lauren Middleton\*, Sreedhar Mandayam, Kristy O Murray. Validation of a Clinical Case Definition of Acute Mesoamerican Nephropathy using a Large Retrospective Cohort in Nicaragua. Poster Presentation, 6<sup>th</sup> Annual UTMB Global Health Education Symposium. Galveston, TX, Oct 2017.
37. Vera Won\*, **Rebecca SB Fisher**, Hannah Worrall\*, Kristy O Murray. A Retrospective Cohort Study Documenting the Clinical Progression of Mesoamerican Nephropathy. Poster Presentation, 6<sup>th</sup> Annual UTMB Global Health Education Symposium. Galveston, TX, Oct 2017.
38. Kaila A. Fagerstrom\*, **Rebecca SB Fischer**, Sreedhar Mandayam, Denis Chavarria, Melissa N. Garcia, Linda Garcia\*, Ruth Montenegro, Kristy O. Murray. Occupational Risk Factors for Mesoamerican Nephropathy in Nicaragua: A Case Control Analysis. Poster Presentation & Podium Presentation. The James Steele Conference on Diseases in Nature Transmissible to Man (DIN), Dallas, TX, May 2017.
39. **Rebecca SB Fischer**, Chandan Vangala, Luan Truong, Denis Chavarria, Orlando Granera Llanes, Marcos Fonseca Laguna, Alvaro Guerra Baez, Felix Garcia, Sreedhar Mandayam, Kristy Murray. Histopathologic Characterization

## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

of Acute Mesoamerican Nephropathy (MeN): Insights into the Mechanism of Disease. Moderated Poster Presentation, World Congress of Nephrology 2017, Mexico City, MEXICO, Apr 2017.

40. **Rebecca SB Fischer**, Sreedhar Mandayam, Denis Chavarria, Lesbia Palma, Felix Garcia, Chandan Vangala, Kristy Murray. Acute Kidney Injury in Mesoamerican Nephropathy. Moderated Poster Presentation, World Congress of Nephrology 2017, Mexico City, MEXICO, Apr 2017.
41. **Rebecca SB Fischer**, Chandan Vangala, Luan Truong, Denis Chavarria, Orlando Granera Llanes, Marcos Fonseca Laguna, Alvaro Guerra Baez, Felix Garcia, Sreedhar Mandayam, Lauren Middleton\*, Ruth Montenegro, Melissa Garcia, Linda Garcia\*, Kristy Murray. Clinical Presentation and Renal Pathology of Acute Mesoamerican Nephropathy: Insight into the Etiology of Chronic Kidney Disease of Unknown Etiology. Poster Presentation, Baylor College of Medicine Pediatric Research Symposium, Houston, TX, Mar 2017.
42. **Rebecca SB Fischer**, Sreedhar Mandayam, Denis Chavarria, Melissa N. Garcia, Rodion Gorchakov, Kristy O. Murray. Mesoamerican Nephropathy in Nicaragua: Acute Interstitial Nephritis of Infectious Origin? Podium Presentation, American Society of Tropical Medicine & Hygiene 65th Annual Meeting, Atlanta, GA, Nov 2016.
43. **Rebecca SB Fischer**, Christiane Duttman, Melissa N. Garcia, Rodion Gorchakov, Sarah M. Gunter, William Jiron, Kristy O. Murray. Documenting the Seroprevalence of Zoonotic and Vector Borne Diseases in Rural Nicaragua. Poster Presentation, American Society of Tropical Medicine & Hygiene 65th Annual Meeting, Atlanta, GA, Nov 2016.
44. **Rebecca SB Fischer**, Sreedhar Mandayam, Melissa N. Garcia, Rodion Gorchakov, Kristy O. Murray. Mesoamerican Nephropathy (MeN) in Nicaragua: A Clinical Case Definition of Acute Disease. Poster Presentation, The James Steele Conference on Diseases in Nature Transmissible to Man (DIN), San Antonio, TX, May 2016.
45. **Rebecca SB Fischer**, Rodion Gorchakov, Melissa Nolan Garcia, Denis Chavarria, Alejandro Marin, Kristy O. Murray. Mesoamerican Nephropathy in Nicaragua: Establishing a Clinical Case Definition. Podium Presentation, Espiroquetas Habana 2016/Spirochetes Havana 2016, Havana, CUBA, May 2016.
46. **Rebecca SB Fischer**, Rodion Gorchakov, William Jiron Toruno, Christiane Duttman, Jessica Sheleby, Byron Flores Somarriba, Job Lopez, Hannah Wilder, Melissa Nolan Garcia, Kristy O. Murray. *Leptospira* in Field-Collected Rodents from the Pacific Lowlands of Nicaragua. Podium Presentation, Espiroquetas Habana 2016/Spirochetes Havana 2016, Havana, CUBA, May 2016.
47. **Fischer, Rebecca SB**, Gorchakov, Rodion, Murray, Kristy O. *Detection of Pathogenic Leptospira in Human and Rodent Serum*. Podium Presentation and Didactic Workshop, Espiroquetas Habana 2016/Spirochetes Havana 2016, Havana, CUBA, May 2016.
48. **Fischer, Rebecca SB**, Mandayam, Sreedhar, Garcia, Melissa N, Gorchakov, Rodion, Chavarria, Denis, Murray, Kristy O. Mesoamerican Nephropathy in Nicaragua: Interstitial Nephritis of Infectious Origin? Poster Presentation, National Kidney Foundation Spring Meetings, Boston, MA, Apr 2016.
49. **Fischer, Rebecca SB**, Mandayam, Sreedhar, Garcia, Melissa N, Gorchakov, Rodion, Chavarria, Denis, Murray, Kristy O. Mesoamerican Nephropathy in Nicaragua: Establishing a Clinical Case Definition. Poster Presentation, Baylor College of Medicine Pediatric Research Symposium, Houston, TX, Mar 2016.
50. **Fischer, Rebecca SB**, Reid, Michael JA, Mannathoko, Naledi, Steenhoff, Andrew P., Brown, Eric L. *Staphylococcus aureus* in Botswana: Carriage Prevalence, Persistence, Risk Factors, Antibiotic Resistance, and Molecular Epidemiology. Poster Presentation, American Society of Tropical Medicine & Hygiene 64th Annual Meeting, Philadelphia, PA, Oct 2015.
51. Murray, Kristy O, **Fischer, Rebecca SB**, Chavarria, Denis, Duttmann, Christiane, Garcia, Melissa N, Gorchkov, Rodion, Hotez, Peter J, Jiron, William, Leibler, Jessica H, Lopez, Job E, Mandayam, Sreedhar, Marin, Alejandro,

## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

- Shelby, Jessica, Wilder, Hannah. Mesoamerican Nephropathy: A Neglected Tropical Disease with an Infectious Etiology? Poster Presentation, American Society of Tropical Medicine & Hygiene 64th Annual Meeting, Philadelphia, PA, Oct 2015.
52. **Fischer, Rebecca SB**, Reid, Michael JA, Mannathoko, Naledi, Brown, Eric L, Steenhoff, Andrew P. *Staphylococcus aureus* nasal carriage among HIV-infected and uninfected children in Botswana. Podium Presentation, 2015 James Steele Conference on Diseases in Nature Transmissible to Man, Galveston, TX, May 2015.
53. Jessica Shelby, **Rebecca Fischer**, Melissa Nolan, Jessica Leibler, Kristy Murray, Christiane Duttmann, Brenda Mora, Eveling Pérez, Byron Flores, William Jirón. Estudio piloto: Investigación de la etiología de un brote de una enfermedad renal no determinada en Nicaragua (Resultados preliminares). Podium Presentation, Reunión Internacional de países que están enfrentando brotes de leptospirosis en las Americas, Managua, NICARAGUA, Feb 2015.
54. **Fischer, RSB**, Michael Reid, Naledi Mannathoko, E.L. Brown, Andrew Steenhoff. *Staphylococcus aureus* in HIV-infected adults in Botswana. Poster Presentation, Conference on Retroviruses and Opportunistic Infections, Seattle, WA, Feb 2015.
55. **Fischer, RSB**, Michael Reid, Naledi Mannathoko, E.L. Brown, Andrew Steenhoff. Risk factors for *Staphylococcus aureus* carriage in HIV-infected outpatients in Southern Botswana. Poster Presentation, 5th Botswana International HIV Conference, Gaborone, BOTSWANA, Aug 2014.
56. Tolo, Isaiah, Thomas, Jonathan C., **Fischer, Rebecca SB**, Brown, Eric. L., Gray, Barry M., Robinson, D. Ashley. Do *Staphylococcus epidermidis* genetic clusters predict isolation sources? Poster Presentation, International Symposium on Staphylococci and Staphylococcal Infections, Chicago, IL, Aug 2014.
57. **Fischer, RSB**. *Lessons from the Field: Best Practices in Global Health Research*. Panel Member, Houston Global Health Collaborative Connect Conference, Houston, TX, March 2014.
58. **Bryson, RS**, Montealegre, JR. *Utilizing Students During Emergencies*. Podium Presentation and Panel Discussion. Public Health Preparedness Summit 2010, Atlanta, GA, Feb 2010.
59. **Bryson, RS**, Nieman, LZ, Cheng, L, Dumas, C. *Chronic Illness Needs Educated Doctors: An innovative training program prepares family medicine residents for improved management of the chronically ill*. Poster Presentation, North American Primary Care Research Group 36th Annual Meeting , Rio Grande, PUERTO RICO, Nov 2009.
60. **Bryson, RS**, Nieman, LZ, Cheng, L, Dumas C. *Chronic Illness Needs Educated Doctors: Improving Health-Related Quality of Life Through a More Focused Management of the Chronically Ill*. Poster Presentation, Advances in Teaching & Learning, Regional Conference, Houston, TX, Oct 2009.
61. **Bryson, RS**, Koers, EM, Montealegre, JR, Murray KO. *Student Epidemic Intelligence Society: Training Tomorrow's Public Health Workforce*. Podium Presentation, Texas Society of Public Health Education, Spring Conference 2009. Houston, TX, Mar 2009.
62. Montealegre, JR, Koers, EM, **Bryson, RS**. 2009. *Graduate Student Epidemiology Response: An Innovative Public Health Preparedness Training Program*. Roundtable Discussion, Public Health Preparedness Summit 2009, San Diego, CA, Feb 2009.

### **Journal & Manuscript Peer Reviewer**

Journal of the American Medical Association  
International Journal of Infectious Diseases  
American Journal of Tropical Medicine & Hygiene  
PLOS Neglected Tropical Diseases

## Curriculum Vitae

Rebecca Susann Bryson Fischer, PhD MPH DTM&H

PLOS One  
BMC Infectious Diseases  
American Journal of Kidney Diseases  
Acta Tropica  
American Journal of Industrial Medicine

### Grant Funding

#### External Grant Funding

- U.S. Centers for Disease Control \*SUBMITTED\* 09/01/2022-08/31/2027  
Role: **Principal Investigator**  
Title: Preventing Respiratory Infection and Illness in Texas: the Texas A&M PREVENTION Study  
Total Budget: \$12,500,000
- N.I.H. National Institute of Allergy and Infectious Diseases (UM1) 02/01/2021-11/30/2022  
PI: Lawrence Corey (Fred Hutchinson Cancer Research Center, HIV Vaccines Clinical Trials Network Leadership and Operations Center)  
Role: **Sub-Award Principal Investigator**  
Title: Coronavirus Prevention Network (COVPN) 3006 "Prevent COVID U" (UM1AI068614)  
Total Sub Award Budget: \$3,573,309
- N.I.H. Fogarty Center International (K01) 09/21/2018-03/31/2023  
Role: **Principal Investigator**  
Title: Investigation into the Epidemic of Unexplained Kidney Disease in Nicaragua: Understanding the Acute Clinical Scenario and Natural History of Disease in Mesoamerican Nephropathy  
Annual Budget: \$138,332
- Comite Nacional de Productores de Azucar de Nicaragua (CNPA) 09/01/2014-01/01/2018  
PI: Kristy Murray  
Role: **Postdoctoral Associate**  
Title: Investigation into The Etiology of Unexplained Kidney Disease In Nicaragua  
Total Budget: \$1,000,000
- #### Internal Grant Funding
- Texas A&M Health Science Center Seedling Grant 05/01/2022-04/30/2023  
Role: **Principal Investigator**  
Title: Texas A&M CAREs: COVID, Antibodies, and Recovery  
Total Budget: \$125,000
- Texas A&M Triads for Transformation (T3) Seed Grant 01/01/2019-12/31/2020  
PI: Brian Colwell  
Role: **Co-Investigator**  
Title: The Burden of Crop and Livestock Disease-Associated Production Losses in Nicaragua  
Total Budget: \$32,000

## Curriculum Vitae

Rebecca Susann Bryson Fischer, PhD MPH DTM&H

### Student Supporting Grants & Awards

N.I.H. National Institute of Allergy and Infectious Diseases (K08) – *SUBMITTED* 08/01/2023-07/31/2026

PI: Loni Taylor (Texas A&M Veterinary Integrative Biosciences)

**Role: Primary Mentor and Co-Investigator**

Title: Determination of Best Methods for Analysis of Viral Viability as an Assessment of Viral Infectivity of SARS-CoV-2 and Evaluation of the Effect of Immunity on Viral Infectivity in Human Samples

Total Budget: \$362,532

Texas A&M Abroad – Global Engagement Grant

06/01/2021-12/31/2022

Role: **Co-Principal Investigator**; PI: Christine Blackburn

Title: Dengue Surveillance and Prevention in an Interconnected World

Total Budget: \$25,000

### Non-Funded Grant Applications

2022 U.S. Centers for Disease Control  
05/01/2022-04/30/2027  
Role: **Principal Investigator**  
Title: Texas TRACK PCC: Tracking the burden & epidemiology of Post COVID Conditions in Texas  
Total Budget: \$10,000,000

2021 CDC Training Programs in Epidemiology and Public Health Interventions Network (TEPHINET)  
10/01/2021-09/30/2022  
PI: Heather Engleking (Texas A&M Institute for Infectious Animal Diseases)  
**Role: Co-Principal Investigator**  
Title: Enhancing Public Health Surveillance for Global Health Initiatives  
Total Budget: \$3,500,000

2021 CDC Training Programs in Epidemiology and Public Health Interventions Network  
(TEPHINET): Shoulder to Shoulder: Accompanying Ministries of Health  
in Central America in Strengthening Local and Global Health Security  
09/01/2021-08/31/2022  
PI: Heather Engleking (Texas A&M Institute for Infectious Animal Diseases)  
**Role: Co-Investigator**  
Title: Central America Building Capacity for Global Disease Detection  
Total Budget: \$1,720,369

2021 N.I.H. National Institute of Allergy and Infectious Diseases (R21)  
07/01/2022-06/30/2024  
PI: Sarah Hamer (Texas A&M Veterinary Integrative Biosciences)  
**Role: Collaborator**  
Title: Animal infection and transmission of SARS-CoV-2 in natural environments  
Total Budget: \$275,000

2021 National Science Foundation Social, Behavioral and Economic Sciences (SBE) Program via Trans  
Atlantic Platform (T-AP) Recovery, Renewal and Resilience In A Post-Pandemic World  
10/01/2022-09/30/2023

## *Curriculum Vitae*

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

PI: Arnaud Lami (France), Marcia Ory (U.S.), and Lorena Barberie (Brazil)

**Role: Collaborator**

Title: INVICTUS: Impact of New Viruses (COVID-19): Communications, Health Law and Policy, 3 Rs  
(Recovery, Renewal And Resilience) For an Inclusive Society

- 2021 TAMU Presidential X-Grant  
10/01/2021-12/31/2022  
PI: Burak Güneralp  
**Role: Co-Leader**  
Title: Understanding the role of urbanization in bushmeat hunting, trade, and consumption  
Total Budget: \$100,000
- 2021 TAMU Presidential X-Grant  
10/01/2021-12/31/2022  
PI: Murray Cote  
**Role: Co-Leader**  
Title: Novel Multidisciplinary Approaches for Pandemic Response: Lessons from COVID-19  
Total Budget: \$100,000
- 2020 USAID Global Health Security Program - Strategies to Prevent (STOP) Spillover  
09/30/2020 - 09/29/2025  
Consortium PI/Project Director: David Castellan (Texas A&M Institute for Infectious Animal Diseases  
Sub-PI: Christine Blackburn (Texas A&M Bush School, Pandemic Policy institute)  
**Role: Sub Co-PI**  
Title: Strategies to Prevent (STOP) Spillover  
Consortium Budget: \$100,000,000; Sub Budget: \$1,201,276
- 2020 N.I.H. National Institute of Allergy and Infectious Diseases (R21)  
10/01/2020-09/30/2022  
PI: Sarah Hamer (Texas A&M Veterinary Integrative Biosciences)  
**Role: Collaborator**  
Title: Companion animal infection and viral shedding of SARS-CoV-2 from households with COVID-19  
human cases  
Total Budget: \$275,000
- 2020 CISCO Systems  
09/01/2020-08/31/2021  
PI: Martial Ndeffo (Texas A&M Veterinary Integrative Biosciences)  
**Role: Collaborator**  
Title: COVID-19: Spatiotemporal hierarchical modeling for COVID-19 in the United States  
Total Budget: \$171,232
- 2020 N.I.H. National Institutes of Diabetes and Digestive and Kidney Diseases (R21)  
12/01/2020-11/30/2022  
**PI: Rebecca Fischer**  
Title: Uncovering the dynamic pathophysiology of Mesoamerican Nephropathy  
Total Budget Requested: \$275,000
- 2020 N.I.H. National Institute of Allergy and Infectious Diseases (R21)

## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

07/15/2020-07/14/2022

PI: Sarah Hamer (Texas A&M Veterinary Integrative Biosciences)

**Role: Collaborator**

Title: Companion animal pets of COVID-19 cases as sentinels and infection sources for SARS-CoV-2

Total Budget: \$150,000

2020 Texas A&M University and the Consejo Nacional de Ciencia y Tecnología (CONACYT) Research Grant  
06/01/2020-05/31/2021

**PI: Rebecca Fischer**

Title: Molecular characterization of antimicrobial heteroresistance in *Staphylococcus aureus* isolated from humans on the Mexico-Texas border

Total Budget: \$30,000 – Not funded

2020 Fulbright U.S. Scholar Program

08/01/2020 – 07/31/2020

**PI Rebecca Fischer**

Title: Integrative Training for Applied Public Health: Utilizing Students to Advance Research into the Mysterious Epidemic of Unexplained Kidney Disease in Central America

2020 TAMU Presidential Transformational Teaching Grant

07/01/2020-06/30/2022

**PI: Rebecca Fischer**

Title: Puzzles in Environmental Epidemiology: Investigating a Mysterious Epidemic in Nicaragua

Total Budget: \$60,000

2019 TAMU Presidential X-Grant

PI: Peter Knappett

**Role: Co-Investigator**

Title: Optimizing Groundwater Quality and Supply by Quantifying Trade-offs between Groundwater Needs, Arsenic Concentrations, Human Health and Economic Well-being

Total Budget: \$100,000

2019 National Institute of Diabetes and Digestive and Kidney Diseases & the University of Pennsylvania  
Chronic Kidney Disease Biomarkers Consortium (CKD BioCon) Scientific and Data Coordinating  
Center Pilot and Feasibility Studies Program (PFSP) Funding

01/01/2020-12/31/2020

**PI: Rebecca Fischer**

Title: Mesoamerican Nephropathy: Using Biomarkers to Understand Clinical Disease Progression

Total Budget: \$75,000

2019 ASN Foundation for Kidney Research (ASN Foundation) Career Development Grant

07/01/2019-06/30/2021

**PI: Rebecca Fischer**

Title: Quest for Diagnostic and Prognostic Biomarkers across the Lifespan in Mesoamerican Nephropathy

Annual Budget: \$100,000

### **Research Engagement**

#### **Ongoing Research Projects**

2021-Present Prevent COVID U

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## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

**PI: Rebecca Fischer**

Co-Investigators: Dr. Joy Alonzo (TAMU), Dr. Marcia Ory (TAMU), Dr. George Udeani (TAMU)

A randomized, controlled open-label vaccine study to assess SARS CoV-2 infection, viral shedding, and subsequent potential transmission in university students immunized with Moderna COVID-19 Vaccine

2020-Present COVID in Students: Antibodies, Protection, and Reinfection – *The COVID SPARE Study*

**PI: Rebecca Fischer**

Co-Investigators: Dr. Martial Ndeffo (TAMU)

Texas-based study to understand the natural history of SARS-CoV-2 infection and immune response in Young adults (natural History of SARS-CoV-2 Infection), and transmission dynamics

2019-Present (Nicaragua) The Burden of Crop and Livestock Disease-Associated Production Losses. Principal Investigator: Brian Colwell

**Co-Investigators: Rebecca Fischer**, Christine Budke, Byron Flores Somarriba (UNAN-Leon, Nicaragua), Christiane Duttmann (UNAN-Leon, Nicaragua)

2018-Present (Central America) Investigation into the Epidemic of Kidney Disease of Unknown Etiology in Nicaragua and across Central America

**PI: Dr Rebecca Fischer**

Co-Investigators: Kristy Murray (BCM), Sreedhar Mandayam (BCM), Ramon Garcia Trabanino (El Salvador), Samuel Vilchez (UNAN-Leon, Nicaragua), Victor Zeledon (UNAN-Leon, Nicaragua)

2018-Present Epidemiology of Zoonotic, Vector-borne, and other Tropical Diseases Texas

**PI: Rebecca Fischer**

Co-PIs: Sarah Gunter (Baylor College of Medicine), Shannon Ronca (Baylor College of Medicine)

Texas-based epidemiological & clinical studies to understand and describe the occurrence and epidemiology of tropical and other understudied diseases in Texas - distribution, risk factors, and opportunities for education and public health action

2018-Present (Central America) An Integrated One Health Approach to Detect and Respond to Emerging Disease Threats in High-Risk Regions of Central America.

Principal Investigator: Dr Kristy Murray (BCM)

**Role: Collaborator**

CDC multisite Acute Febrile Surveillance program for etiologic discovery and understanding epidemiology of AFI in Central America.

2019-Present (Gaborone, Botswana) *Staphylococcus aureus* genetic characterization and antibiotic resistance phenotype profiling for colonizing strains in Botswana

**PI: Rebecca Fischer**

Co-Investigators: Dr Eric Brown (UTSPH), Dr Mike Reid (UPenn), Dr Andrew Steenhoff (UPenn), Dr Gerard Morris (UPenn), Dr Dr Naledi Mannathoko (University of Botswana)

Secondary laboratory analysis of isolates previously recovered and banked from an all-ages, HIV-defined cohort in Botswana during 2013.

## ***Curriculum Vitae***

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

### **Past Research Involvement**

- 2014-2017 Active Surveillance for Mosquito-borne Diseases Among Pediatric Emergency Department Patients  
Principal Investigator: Dr Julie Boom (Texas Children's Hospital).  
Role: Doctoral Intern
- 2013-2015 Genome-wide association to *Staphylococcus aureus* nasal colonization  
Principal Investigator: Dr Eric Brown (UTSPH), Dr Craig Hanis (UTSPH).  
Role: Graduate Research Assistant
- 2013 Epidemiology and Clinical Investigation of West Nile Virus: "WNV/CKD Case Control Study"  
Principal Investigator: Dr Amber Podoll  
Role: Graduate Research Assistant
- 2012-2017 (Gaborone, Botswana) Prevalence, antibiotic resistance profile, and genetic characterization of *Staphylococcus aureus* colonizing adults and children in Botswana and risk factors for colonization  
**PI: Rebecca (Bryson) Fischer**  
Co-Investigators: Dr Eric Brown (UTSPH), Dr Mike Reid (UPenn), Dr Andrew Steenhoff (UPenn), Dr Gerard Morris (UPenn), Dr Dr Naledi Mannathoko (University of Botswana)
- 2011-2013 Epidemiology and Clinical Investigation of West Nile Virus: "Epidemiology of Arboviral Encephalomyelitis in Houston" & "West Nile Virus Infection and Immunity in the Elderly: Mechanisms of Vulnerability" & "Immune response and viral persistence in West Nile virus infected patients" & "Viral persistence and immunity in West Nile virus infected patients" & "Renal and Neurological Outcomes in Chronically Infected West Nile Virus Patients"  
Principal Investigator: Dr Rodrigo Hasbun (UTSPH).  
Role: Graduate Research Assistant
- 2010-2013 Catalytic Antibodies to *Staphylococcus aureus*  
Principal Investigator: Dr Eric Brown (UTSPH).  
Role: Graduate Research Assistant
- 2010-2011 Community Needs Assessment for the Motherland Clinic and Hour Clinics in Houston, TX.  
**Co-PIs: Rebecca Bryson**, Jamie Emert (UTSPH)  
Faculty Mentor: Dr Kristy Murray (UTSPH).
- 2009 (Bohol, Philippines) Rapid Assessment of the Bohol Rabies Prevention and Eradication Program (BRPEP).  
Supervisors: Dr Betsy Miranda (World Health Organization), Dr Stella Lapiz (Provincial Veterinarian, Bohol, Philippines), Dr Kristy Murray (UTSPH).
- 2009 (Veracruz, Mexico) Rapid Assessment of 2009 H1N1 outbreak in La Gloria, Veracruz, Mexico.  
Supervisor: Dr Kristy Murray (UTSPH).

## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

- 2008 (Intibucá, Honduras) Assessment of Child Health and Household Risk Factors for Stunting in Rural Honduras  
Supervisor: Dr Erin Koers (CDC, UTSPH).
- 2007-2011 Graduate Student Epidemiology Response: An Innovative Public Health Preparedness Training Program  
Principal Investigator: Dr Kristy Murray (UTSPH).  
Role: Graduate Research Assistant
- 2007-2011 Pediatric Antibody response to Panton-Valentin Leukocidin, a virulence factor of *Staphylococcus aureus*  
Principal Investigator: Dr Eric Brown (UTSPH).  
Role: Graduate Research Assistant

### **Invited Speaking Events and Lectures**

1. *Coronavirus and Variants: Path Forward*. Texas A&M Foundation. 20 Sep 2021.
2. *COVID-19 Vaccines – What’s the big deal?* Instagram Live, hosted by Texas A&M University student government, 3 Sep 2021.
3. *Updates on COVID at Texas A&M*. Texas A&M Health Science Center Virtual Town Hall, 14 Apr 2021.
4. *Texas A&M Leadership and Response during a Pandemic*. Senate and Legislative Ladies Day, 13 Apr 2021.
5. Moderator: *Preparing for the Next Pandemic – with Peter Hotez*, Texas A&M University School of Public Health, 7 Apr 2021.
6. *Aggies Leading during the COVID-19 Pandemic Response*. Aggie Networking Luncheon. 11 May 2021.
7. *REDDIT – Ask Me Anything (AMA)*, hosted by Texas A&M University, 25 Mar 2021.
8. *COVID-19 Response: Panel Discussion*. Texas A&M University System: The Chancellor’s Century Council Annual Meeting, 25 Feb 2021.
9. *Media & Communications for COVID-19*. MEDIA PROCESSES & EFFECTS. 17 Nov 2020
10. *COVID-19 Reporting & Updates*. Texas A&M University System Offices Meeting, 15 Oct 2020.
11. *Updates on COVID-19*. Texas A&M University System Town Hall, 7 Oct 2020.
12. *Forecasting a pandemic: COVID-19 Rates*. Texas A&M University System Town Hall, 16 Sep 2020.
13. *Pandemics & International Response Efforts*. Global Health Committee, Texas A&M chapter of the American Medical Student Association, 8 Sep 2020.
14. *COVID-19 Reporting & Updates*. Texas A&M University System Offices Meeting, 10 Sep 2020.
15. *Coronavirus Vaccines: Prevention and Mitigation Strategies*. Texas A&M Foundation. 26 Jan 2021.
16. *COVID and KIDS*. Texas Family Leadership Council, 27 Aug 2020.
17. *COVID Leadership Panel*. Texas A&M University, The 68th Annual MSC Fall Leadership Conference, 14 Aug 2020.
18. *Forecasting a pandemic: COVID-19 Rates*. Texas A&M University System Offices Town Hall, 28 Jul 2020.
19. *COVID-19 Protection and Prevention*. The Texas Public Power Association (TPPA) Annual Business Meeting, 27 Jul 2020.
20. *COVID-19 Conversations: Debunking Myths*. Texas A&M University School of Public Health. 17 July 2020.
21. *Conversations on COVID-19 Mitigating the Outbreak in Texas*. The Academy of Medicine, Engineering and Science of Texas, 14 July 2020. [Recording](#).
22. *COVID-19 Conversations: A Day in the Life of an Infectious Disease Epidemiologist*. Texas A&M University School of Public Health. 19 May 2020.

## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

23. *Conversations on COVID-19 Modeling and Testing in Texas*. The Academy of Medicine, Engineering and Science of Texas, 14 May 2020. [Recording](#).
24. *Coronavirus: an outlook on the pandemic in Texas*. Texas A&M Foundation. 31 March 2020; <https://www.youtube.com/watch?v=BrCJ-1UbTDc&feature=youtu.be>.
25. *COVID-19 in Texas & Brazos Valley: Mitigation Strategies*. Texas A&M Foundation. 24 Mar 2020
26. *Tropical Medicine and One Health*. Texas A&M University College of Veterinary Medicine & Biomedical Sciences, 21st Century Global One Health Course, College Station TX, Jan 2020.
27. *Fundamentals of Planning Health Research*. Baylor College of Medicine 2019 Tropical Medicine Summer Institute, Houston, TX, Jun 2019.
28. *Lab Techniques in Epidemiologic & Clinical Research*. Baylor College of Medicine 2019 Tropical Medicine Summer Institute, Houston, TX, Jun 2019.
29. *Public Health in Action: Training in Outbreak Investigations*, TAMU SPH Epidemiology Student Organization, College Station TX, Mar 2019.
30. *Tropical Medicine and One Health*. Texas A&M University College of Veterinary Medicine & Biomedical Sciences, 21st Century Global One Health Course, College Station TX, Feb 2019.
31. *Fundamentals of Planning Health Research*. Baylor College of Medicine 2019 Tropical Medicine Summer Institute, Houston, TX, Jun 2019.
32. *Lab Techniques in Epidemiologic & Clinical Research*. Baylor College of Medicine 2019 Tropical Medicine Summer Institute, Houston, TX, Jun 2019.
33. *Tropical Medicine and One Health*. Texas A&M University College of Veterinary Medicine & Biomedical Sciences, 21st Century Global One Health Course, College Station TX, Feb 2019.
34. *Tropical Medicine and One Health*. Texas A&M University College of Veterinary Medicine & Biomedical Sciences, 21st Century Global One Health Course, College Station TX, Oct 2018.
35. *Fundamentals of Planning Health Research*. Baylor College of Medicine 2018 Tropical Medicine Summer Institute, Houston, TX, Jun 2018.
36. *Lab Techniques in Epidemiologic & Clinical Research*. Baylor College of Medicine 2018 Tropical Medicine Summer Institute, Houston, TX, Jun 2018.
37. *Tropical Medicine Journal Club*. Baylor College of Medicine 2018 Tropical Medicine Summer Institute, Houston, TX, Jun 2018.
38. *Mesoamerican Nephropathy in Nicaragua: Steps toward cracking a 20-year medical mystery*. The University of Texas Medical Branch, Galveston, TX, Apr 2018.
39. *Steps toward cracking a 20-year medical mystery in Central America*. Texas A&M University, Guest Seminar, College Station, TX, Apr 2018.
40. *Mesoamerican Nephropathy in Nicaragua: Understanding Early Clinical Predictors of Disease Progression*. BCM/TCH Renal Grand Rounds, Houston, TX, Jan 2018.
41. *Mesoamerican Nephropathy: Toward a Clinical Understanding of the Epidemic of Chronic Kidney Disease of Unknown Etiology in Latin America*. LI Congreso Nacional de Nefrología 2017, Chihuahua, MEXICO, Sep 2017.
42. *Fundamentals of Planning Epidemiologic Investigations & Ethics in Research*. Baylor College of Medicine 2017 Tropical Medicine Summer Institute, Houston, TX, Jun 2017.
43. *Lab Techniques in Clinical Research*. Baylor College of Medicine 2017 Tropical Medicine Summer Institute, Houston, TX, Jun 2017.
44. *Lessons from the Field: Investigating an Epidemic of Unexplained Kidney Disease in Central America and other Epidemiologic Adventures*. Houston Global Health Collaborative SUSTAIN Conference, Houston, TX, Mar 2017.

## Curriculum Vitae

Rebecca Susann Bryson Fischer, PhD MPH DTM&H

45. *Mesoamerican Nephropathy in Nicaragua: What does the Acute Clinical Presentation Tell Us?* BCM/TCH Renal Grand Rounds, Houston, TX, Feb 2017.
46. *Field Investigations in Tropical Medicine*. Rice University Seminar in Tropical Medicine, Houston, TX, Oct 2016.
47. *Fundamentals of Research: Practical Design and Ethical Considerations*. Baylor College of Medicine 2016 Tropical Medicine Summer Institute, Houston, TX, Jun 2016
48. *Laboratory Techniques in Clinical Research*. Baylor College of Medicine 2016 Tropical Medicine Summer Institute, Houston, TX, Jun 2016
49. *Necropsy for Histopathologic Preservation in Field Collected Rodents, Practical*. Universidad Nacional Autónoma de Nicaragua Escuela de Medicina Veterinaria, Leon, NICARAGUA, Jun 2016
50. *Practical Application of qPCR for the Detection of Pathogenic Leptospira in Serum using TaqMan Assay*. Pedro Kourí Tropical Medicine Institute (IPK) Espiroquetas Habana 2016/Spirochetes Havana 2016, Havana, CUBA, May 2016
51. *Epidemiology, Antibiotic Resistance, and Molecular Characteristics of Staphylococcus aureus carriage among HIV-infected and HIV-uninfected Children in Botswana*. Baylor College of Medicine Tropical Medicine Seminar Series, Houston, TX, Feb 2016
52. *Fundamentals of Clinical Investigation & Ethics in Medical Research*. Baylor College of Medicine 2015 Tropical Medicine Summer Institute, Houston, TX, Jun 2015
53. *Epidemiologic Investigations*. Baylor College of Medicine 2015 Tropical Medicine Summer Institute, Houston, TX, Jun 2015
54. *Detecting & Investigating Outbreaks*. DeBakey Scientific Symposium. Houston, TX, Dec 2013
55. *Detecting & Investigating Outbreaks*. DeBakey Scientific Symposium. Houston, TX, Dec 2011
56. *Detecting & Investigating Outbreaks*. DeBakey Scientific Symposium. Houston, TX, Dec 2010
57. *Successes of the Rabies Immunization & Eradication Assessment in Bohol, Philippines*. PH 2990, UTSPH, Houston, TX, Sep 2010
58. *Findings of the H1N1 Rapid Assessment at Ground Zero in La Gloria, Veracruz, Mexico*. PH 5612, UTSPH, Houston, TX, Mar 2010
59. *Response to the H1N1 Outbreak in Veracruz, Mexico*, PH 2990, UTSPH, Houston, TX, Nov 2009

## Scientific Participation

### Professional Memberships & Associations

2021-Present	Protégé Program, The Academy of Medicine, Engineering & Science of Texas (TAMEST)
2020-Present	Texas A&M University Emergency Management Advisory Group (TEMAG)
2018-Present	i3C: International Consortium of Collaborators on Chronic Kidney Disease of Unknown Etiology
2018-Present	National Center for Faculty Development and Diversity
2018-Present	Sigma Xi, The Scientific Research Honor Society: Rice University Texas Medical Center Chapter
2018-Present	Society for Epidemiologic Research
2016-Present	Consortium for the Epidemic of Nephropathy in Central America and Mexico (CENCAM)
2016-Present	American Society for Microbiology
2016-Present	International Society of Nephrology
2016-Present	American Society of Nephrology
2015-Present	Association for Women in Science
2015-Present	American Association for the Advancement of Science
2014-Present	American Society of Tropical Medicine & Hygiene

Rebecca SB Fischer

## ***Curriculum Vitae***

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

2013-Present	International Society of Infectious Diseases
2010-2016	Infectious Disease Society of America
2015-2017	National Postdoctoral Association
2006-2013	American Public Health Association
2011-2013	American Association of University Women
2007-2011	Global Health Council
2006-2009	Texas Public Health Association

### **Service to the College & University**

2022-Present	Committee, Doctoral Qualifying Examinations Grading, Texas A&M School of Public Health
2022-Present	Committee, Doctoral Admissions, Texas A&M School of Public Health
2019-Present	Director, Laboratory for Human Tropical Diseases, Texas A&M School of Public Health
2019-Present	Faculty, Interdisciplinary Faculty of Toxicology and NIEHS T32 Program, Texas A&M College of Veterinary Medicine and Biomedical Sciences
2019-Present	Faculty Teaching Peer Reviewer, School of Public Health, Texas A&M University
2018-Present	Advisor, Epidemiology Student Organization; Texas A&M School of Public Health
2021-2022	Advising Epidemiologist, Texas A&M COVID Operations & Investigations Center
2021-2022	Faculty Search Committee; Texas A&M School of Public Health, Department of Environmental & Occupational Health
2020-2021	Director, COVID-19 Testing Program, Texas A&M University COVID Operations & Investigations Center
2020-2021	Working Group on SARS-COV-2 Campus Surveillance; Texas A&M School of Public Health
2020-2021	Chief Epidemiologist, Texas A&M COVID Operations & Investigations Center
2020	Director, Texas A&M COVID Operations & Investigations Center
2020	Infectious Disease Task Force, Texas A&M University
2019-2020	Committee for Curriculum Development of PhD in Epidemiology; Texas A&M School of Public Health
2019-2020	Faculty Facilitator for TAMU Student One Health Association Outbreak Simulation, an interdisciplinary student-organized activity of the TAMU Health Science Center
2018-2019	Faculty Search Committee; Texas A&M School of Public Health, Department of Epidemiology & Biostatistics
2018	Search Committee for Assistant Vice President of Research; Texas A&M Health Science Center

### **Service to the Community & Profession**

2020-Present	Texas A&M Emergency Management Advisory Group (TEMAG)
2020-2022	Working Group on Modeling COVID-19 in Texas; Texas A&M School of Public Health
2021-2022	Advising Epidemiologist, Texas A&M COVID Operations & Investigations Center
2020-2021	Chief Epidemiologist, Texas A&M University System COVID-19 Operations & Investigations Ctr
2019	Working Group Molecular Approaches to CKDu: Genetics, epigenetics, and infectious disease. Consortium for the Epidemic of Nephropathy in Central America and Mexico & SALTRA Joint Workshop with PAHO & NIEHS: Third International Workshop on Chronic Kidney Diseases of Uncertain/Non-traditional Etiology in Mesoamerica and Other Regions, San Jose, COSTA RICA.
2019	Working Group on Pathology. Consortium for the Epidemic of Nephropathy in Central America and Mexico & SALTRA Joint Workshop with PAHO & NIEHS: Third International Workshop on Chronic Kidney

## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

Diseases of Uncertain/Non-traditional Etiology in Mesoamerica and Other Regions, San Jose, COSTA RICA.

- 2018 Section President: *Epidemiologic Investigations of Spirochete Disease in Latin America*. Pedro Kourí Tropical Medicine Institute (IPK) Espiroquetas Habana 2018/Spirochetes Havana 2018, Havana, CUBA.
- 2017 Section Co-Chair: *Clinical Tropical Medicine* and *Global Health*. American Society of Tropical Medicine & Hygiene 65th Annual Meeting, Baltimore, MD.
- 2016 Section Co-Chair: *Clinical Tropical Medicine*. American Society of Tropical Medicine & Hygiene 65<sup>th</sup> Annual Meeting, Atlanta, GA.
- 2016 Section President: *Epidemiologic Investigations of Spirochete Disease in Latin America*. Pedro Kourí Tropical Medicine Institute (IPK) Espiroquetas Habana 2016/Spirochetes Havana 2016, Havana, CUBA

### **Teaching Experience**

- TAMU School of Public Health PHEB 619 Spring 2019 (3-credit hours) "Infectious Disease Epidemiology"
- TAMU School of Public Health PHEB 619 Spring 2020 (3-credit hours) "Infectious Disease Epidemiology"
- TAMU School of Public Health PHEB 619 Fall 2020 (3-credit hours) "Infectious Disease Epidemiology"
- TAMU School of Public Health PHEB 619 Fall 2021 (3-credit hours) "Infectious Disease Epidemiology"
- Various recurring Guest Lectures at School of Public Health in Graduate Courses (Environmental Epidemiology, Spatial Epidemiology, One Health, Epidemiology Methods II, Data Management); and Undergraduate Course (Introduction to Epidemiology)
- Recurring Guest Lecture at College of Veterinary Medicine "Tropical Medicine & One Health"

### **Mentorship & Research Supervision**

#### **Postdoctoral Trainees**

- |   |                     |
|---|---------------------|
| Aishatu Yusuf, DrPH   | Nov 2020 – Present  |
| Loni Taylor, DVM MPH  | Jul 2020 – Present  |
| Benika Dixon, DrPH  | Aug 2020 – Aug 2021 |
| (Current position, Visiting Assistant Professor & ACES Fellow, Texas A&M University)  |                     |
| Eman Muhammad, PhD  | Apr 2021 – Sep 2021 |
| (Current position, Postdoctoral Associate, College of Pharmacy, Texas A&M University) |                     |

#### **Research Supervision**

- Loni Taylor, DVM MPH – PhD Student, Veterinary Integrative Biosciences (TAMU) Jan 2021-Present  
Research Project: Cluster investigation of SARS-CoV-2 outbreak in Clinical & Community setting  
Thesis Project: Virus Viability and Potential Infectivity of SARS-CoV-2 in Immune vs Naïve Patients
- Alyssa McNulty, MPH – DrPH Student, Epidemiology (TAMU) Nov 2019 - Present  
Research Project: Trends in Zoonotic and Vector-borne Diseases in the U.S. and Texas –Impact of Weather parameters and changing Climate on Disease Surveillance Data in the U.S. and in Texas  
Research Project: Seroprevalence and Risk Factors for Rickettsiosis in a Cohort of Hunters in Texas  
Thesis Project: Epidemiology of COVID-19 in Brazos County
- Anna Strasma, MD – Resident, Internal Medicine (BCM) Dec 2017 – Dec 2019  
Research Project: Urinary Findings among Apparently Healthy community members in a region of Nicaragua with a High Burden of Mesoamerican Nephropathy
- Madhuri Uppuluri – MPH Student, Epidemiology (TAMU) Nov 2019 – Aug 2020



## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

Research Project: Maternal morbidity and mortality associated with Dengue Virus Infection during Pregnancy: A Systematic Review

Tesha Landry\*, Brittany Beasley, Santiago Canel Soria, Samuel Karsky\*, Shea Reuter – (TAMU – Various undergraduate) Feb 2020 – Jun 2020

Research Project: Trends in Zoonotic and Vector-borne Diseases in the U.S. and Texas –Impact of Weather parameters and changing Climate on Disease Surveillance Data in the U.S. and in Texas

Haley Schake – B.S. Biomedical Sciences (TAMU) May 2019 – April 2020

Research Project: Urinary Microbiome in Individuals with Acute Mesoamerican Nephropathy (MeN) in Nicaragua

Jolie Starling – B.S. Forensic Sciences (TAMU) Jan 2019 – Apr 2020

Research Project: Findings in Stool Microscopy during Community Health Screenings in Nicaragua; Epidemiology of Intestinal parasitism in Nicaragua, A review and Meta-Analysis

Oluwakemi Alonge – MPH Student, Epidemiology (TAMU) Feb 2019 – May 2020

Research Project: Borderline Oxacillin-Resistant *Staphylococcus aureus* (BORSA) – a rare antibiotic resistance phenotype

Ranu Chouhan – MPH Student, Epidemiology (TAMU) Feb 2019 – Dec 2019

Research Project: Epidemiology of Kidney Disease in Nicaragua – A Systematic Review of the Literature and Spatial Analysis using National Surveillance Data

Alyssa McNulty – MPH Student, Epidemiology (TAMU) May 2019 – Aug 2019

Research Project: Seroprevalence and Risk Factors for Rickettsiosis in a Cohort of Hunters in Texas

Research Project: Leptospirosis in Texas: Historical perspective and Seroprevalence in a Cohort of Hunters in Texas

Leigh Ellyn Preston, MPH – DrPH Student, Epidemiology (TAMU) Oct 2018 – May 2019

Research Project: Typhus Group Rickettsiosis among Patients Hospitalized at Baylor Scott & White and Animals Captured in Central Texas

### Academic Advising

Matthew Kramm, TAMU (DrPH) Aug 2020-Present

Loni Taylor, TAMU (PhD) July 2020-Present

Elise Hubner, TAMU (DrPH) May 2020-Present

Louis Blair, TAMU (DrPH) May 2020-Present

Tykeara Mims, TAMU (DrPH) May 2020-Present

Alyssa McNulty, TAMU (DrPH) Aug 2019-Present

Amber Britt, TAMU (DrPH) Aug 2019-Present

Leigh Ellyn Preston, TAMU (DrPH) Aug 2018-May 2019

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Joel Ambriz, TAMU (MPH) Aug 2021-Present

Thomas Brown, TAMU (MPH) Aug 2021-Present

Randy Garza, TAMU (MPH) Aug 2021-Present

Joshua Kershner, TAMU (MPH) Aug 2021-Present

Autumn Murley, TAMU (MPH) Aug 2021-Present

Sapana Sampson, TAMU (MPH) Aug 2021-Present

Suha Sreeram, TAMU (MPH) Aug 2021-Present

Kelly Tucker, TAMU (MPH) Aug 2021-Present

Mariel White, TAMU (MPH) Aug 2021-Present

Layla Lustri, TAMU (MPH) Aug 2019-Present

Rebecca SB Fischer

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## Curriculum Vitae

Rebecca Susann Bryson Fischer, PhD MPH DTM&H

Delaney LaBrutta, TAMU (MPH) Aug 2020-Present  
Franchesca Rodriguez, TAMU (MPH) Aug 2020-Present  
Trini Aleman, TAMU (MPH) Aug 2020-Present  
Kristen Merrell, TAMU (MPH) Aug 2019-Aug 2021  
Kyleigh Glasper, TAMU (MPH) Aug 2019-Aug 2021  
Natasha Jahani, TAMU (MPH) Aug 2019-May 2021  
Nishat Hasan, TAMU (MPH) Aug 2019-Aug 2021  
Nicole Patterson, TAMU (MPH) Aug 2019-Aug 2021  
Ashton Adelhart, TAMU (MPH) Aug 2019-Aug 2021  
Kristen Williams, TAMU (MPH) Aug 2019-Dec 2019

### Thesis Committees

Amber Britt, MS – DrPH Student, Epidemiology (TAMU) Jan 2022-Present  
Role Committee Chair  
Dissertation Title: *pending*

Loni Taylor, DVM MPH – PhD Student, Veterinary Integrative Biosciences- Epidemiology Emphasis (TAMU) Aug 2021-Present  
Role: Committee Member  
Dissertation Title: Virus Viability and Potential Infectivity of SARS-CoV-2 in Immune vs Naïve Patients

Alyssa McNulty, MPH – DrPH Student, Epidemiology (TAMU) – Committee Chair Nov 2019-Present  
Dissertation Title: A bird’s eye view of covid-19’s impact on a college city

Leigh Ellyn Preston, DrPH MPH  
Dissertation Title: Epidemiology of Typhus Group Rickettsiosis among Humans and Animal Reservoirs in Central Texas.  
Role: Advisor, Committee Chair, and Research Supervisor; Oct 2018-May 2019  
Graduation date: May 2019  
Next Position:  
Current Position: ORISE Fellow at CDC

Shanette Billings, MSc. (TAMU)  
Role: Committee Member; Feb 2019-Dec 2019  
Graduation date: December 2019

Nicole Delgado, MPH (UTSPH)  
Role: External Committee Member and Research Supervisor; Dec 2017-Dec 2018  
Thesis Title: Investigation of Hantavirus and Leptospirosis as Possible Contributing Causes of Unexplained Kidney Disease Epidemic in Nicaragua  
Graduation date: December 2018

Adriana Maliga, MPH (Columbia University Mailman School of Public Health)  
Role: External Committee Member and Research Supervisor; Dec 2017-May 2018  
Thesis Title:  
Graduation date: May 2018  
Current Position: Research Coordinator at Baylor College of Medicine; PhD student in Epidemiology at the University of Texas School of Public Health

### Guided Mentorship

#### MPH/MSPH Students

Adrianna Maliga, Columbia University Mailman School of Public Health Jun 2017-May 2018  
Nicole Delgado, UTSPH Jun 2017-Dec 2017  
Vera Won, UTSPH May 2017-Dec 2017

## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

Hannah Worrall, UTSPH	Jan 2017-Dec 2017
Linda Garcia, UTSPH	May 2015-Jun 2017
Edward Davila, TAMU SPH	May 2016-Aug 2016
Timothy Erickson, TAMU SPH	Jan 2015-Apr 2015
Heather Essigmann, UTSPH	Jan 2014-Dec 2014
Erin McHugh, UTSPH	Jan 2013-Jun 2013
Amy McElhaney, UTSPH	Dec 2012-Feb 2013
PhD Students	
Timothy Erickson, UTSPH	Mar 2016-Dec 2016
Kristyn Hoffman, BCM GSBS	Jan 2017-Mar 2017
Post-doctoral Associate	
Shannon Ronca, BCM	Aug 2016-Dec 2017
Medical Students	
Madeline Clark, UT Medical School	May 2016-Aug 2016
Kaitlyn Carlson, UT Medical School	May 2016-Aug 2016
Koby Caplan, BCM Medical School	Jun 2016-Jul 2016
Lauren Middleton, Mercer University School of Medicine	Aug 2014; May 2016-Jun 2016
Veterinary Students	
Erin Black, TAMU College of Veterinary Medicine & Biomedical Sciences	Jun 2016

### **Professional Development**

- Beyond the Science: Best Practices in Messaging and Communications to Amplify Your Work, Engage Stakeholders and Advocate for Change.* ASTMH Committee on Global Health, Annual Meeting Pre-Meeting Course. Baltimore, MD, Nov 9-11, 2021.
- The Science and Business of Vaccines Against Tropical Parasitic Diseases in the COVID19 Era.* ASTMH Parasitology, Annual Meeting Pre-Meeting Course. Baltimore, MD, Nov 13, 2020.
- Modelling and the Dynamics of Infectious Diseases.* London School of Tropical Medicine & Hygiene, Intensive Short Course. ONLINE, August 2020.
- Introduction to Agent-Based Modeling for Infectious Diseases.* Institute for Disease Modeling Workshop. Baltimore, MD, Nov 19, 2019.
- Field Applications for Stopping Infectious Disease Threats at International Points of Entry.* ASTMH Committee on Global Health, ASTMH Annual Meeting Pre-Meeting Course. Baltimore, MD, Nov 20, 2019.
- Causal Mediation Analysis Training: Methods and Applications Using Health Data.* Columbia University Mailman School of Public Health, SHARP Professional Development, New York City, August 2019.
- Joint FBI-CDC Criminal-Epidemiologic Investigations Workshop,* Houston, TX, Jun 10-11, 2019.
- Certificate in Clinical Tropical Medicine.* Universidad Peruana Cayetano Heredia and the Gorgas Memorial Institute of Tropical and Preventive Medicine, Lima, PERU, Jan 27-Mar 30, 2018.
- Clinical Presentation and Management of Arboviral Diseases: Lessons from the Bedside for Researchers at the Bench or in the Bush.* ASTMH Arbovirology and Medical Entomology, Annual Meeting Pre-Meeting Course. Baltimore, MD, Nov 5, 2017.
- Ethical and Regulatory Aspects of Clinical Research Course.* The National Institutes of Health Clinical Center, Department of Bioethics. Sep 27-Nov 8, 2017.

## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

*Know Thine Enemy: Methods to Identify Mosquitoes and the Viruses They Carry.* ASTMH Arbovirology and Medical Entomology, Annual Meeting Pre-Meeting Course. Atlanta, GA, Nov 12-13, 2016.

*Clinical Scientist Training Program: Responsible Conduct of Research for Clinical Investigators (RCRCI).* Baylor College of Medicine. August 22-25, 2016.

*Import Training: FEDERAL PARTNERS IMPORT/EXPORT REGULATIONS.* United States Federal Partners. Webcast, August 3-4, 2016.

*High Consequence Infectious Disease Response: Ebola and Other Pathogens - A Multi-Disciplinary Workshop.* Texas Department of State Health Services, Houston, TX, February 2-4, 2016.

### Conferences Attended

Consortium of Universities for Global Health, Annual Meeting, Remote, Mar 2022

American Society of Tropical Medicine & Hygiene 68th Annual Meeting, REMOTE, Nov 2021 (Poster Presenter)

International Congress on Infectious Diseases, REMOTE, Oct 2021

American Society of Tropical Medicine & Hygiene 68th Annual Meeting, National Harbor, MD, Nov 2019 (Poster Presenter)

The James Steele Conference on Diseases in Nature Transmissible to Man (DIN), Ft Worth, TX, May 2019 (Poster Presenter)

World Congress of Nephrology 2019, International Society of Nephrology Annual Meeting, Melbourne, AUSTRALIA, April 2019

Consortium for the Epidemic of Nephropathy in Central America and Mexico & SALTRA Joint Workshop with PAHO & NIEHS: Third International Workshop on Chronic Kidney Diseases of Uncertain/Non-traditional Etiology in Mesoamerica and Other Regions, San Jose, COSTA RICA, Mar 2019 (Member, Working Group Molecular Approaches to CKDu: Genetics, epigenetics, and infectious disease; Member, Working Group on Pathology).

2nd Annual Conference on Health of Migrants, University of Texas Medical Branch, Galveston, TX, Dec 2018

American Society of Tropical Medicine & Hygiene 67th Annual Meeting, New Orleans, LA, Oct 2018

Microbiology and Immunology 2018, Virtual Conference, Sept 2018

National Institutes of Diabetes and Digestive & Kidney Diseases *Workshop on Chronic Kidney Diseases in Agricultural Communities*, Bethesda, MD, Jun 2018.

Pedro Kourí Tropical Medicine Institute (IPK) Espiroquetas Habana 2018/Spirochetes Havana 2018, Havana, CUBA, May 2018 (Section President: *Epidemiologic Investigations of Spirochete Disease in Latin America*; Podium Presenter; Workshop Professor)

The James Steele Conference on Diseases in Nature Transmissible to Man (DIN), Houston, TX, May 2018 (Poster Presenter)

National Kidney Foundation 2018 Spring Clinical Meetings, Austin, TX, Apr 2018 (Poster Presenter)

American Society of Tropical Medicine & Hygiene 66th Annual Meeting, Baltimore, MD, Nov 2017 (Section Chair: *Clinical Tropical Medicine*; Podium Presenter; Poster Presenter)

American Society of Nephrology Kidney Week 2017, New Orleans, LA, Nov 2016 (Poster Presenter)

Colegio de Nefrologos de Mexico LI Congreso Nacional de Nefrología 2017, Chihuahua, Mexico, Sep 2017 (Invited Speaker)

World Congress of Nephrology 2017, International Society of Nephrology Annual Meeting, Mexico City, Mexico, May 2017 (Poster Presenter)

Houston Global Health Collaborative SUSTAIN Conference, Houston, TX, Mar 2017 (Podium Presenter).

## **Curriculum Vitae**

**Rebecca Susann Bryson Fischer, PhD MPH DTM&H**

American Society of Tropical Medicine & Hygiene 65th Annual Meeting, Atlanta, GA, Nov 2016 (Section Chair: *Clinical Tropical Medicine*; Podium Presenter; Poster Presenter)

American Society of Nephrology Kidney Week 2016, Chicago, IL, Nov 2016 (Poster Presenter).

Pedro Kourí Tropical Medicine Institute (IPK) Espiroquetas Habana 2016/Spirochetes Havana 2016, Havana, CUBA, May 2016 (Section President: *Epidemiologic Investigations of Spirochete Disease in Latin America*; Podium Presenter; Workshop Chair)

2016 James Steele Conference on Diseases in Nature Transmissible to Man, San Antonio, TX, May 2016 (Poster Presenter)

National Kidney Foundation Spring Clinical Meetings, Boston, MA, Apr 2016.

Houston Global Health Collaborative EMPOWER Conference, Houston, TX, Mar 2016 (Podium Presenter).

American Society of Tropical Medicine & Hygiene 64th Annual Meeting, Philadelphia, PA, Oct 2015 (Poster Presenter; Global Health Committee Travel Award Recipient; Young Investigator Award Competitor)

2015 James Steele Conference on Diseases in Nature Transmissible to Man, Galveston, TX, May 2015 (Podium Presenter)

Conference on Retroviruses and Opportunistic Infections, Seattle, WA, Feb 2015 (Poster Presenter).

Reunión Internacional de países que están enfrentando brotes de leptospirosis en las Americas, Managua, NICARAGUA, Feb 2015. (Panel Presenter)

American Society of Tropical Medicine & Hygiene 63rd Annual Meeting, New Orleans, LA, Oct 2014.

Fancy Gap Immunoparasitology Workshop, Fancy Gap, VA, Oct 2014.

Houston Global Health Collaborative CONNECT Conference, Houston, TX, Mar 2014 (Panel Presenter).

60<sup>th</sup> Annual Epidemic Intelligence Service Conference, Centers for Disease Control, Atlanta, GA, Apr 2012.

58<sup>th</sup> Annual Epidemic Intelligence Service Conference, Centers for Disease Control, Atlanta, GA, Apr 2010.

Texas Society of Public Health Education Spring Conference 2009, Texas Association of Public Health, 2009 (Podium Presenter).

American Public Health Association, Philadelphia, PA, Nov 2009 (Student Panel Lead).

57<sup>th</sup> Annual Epidemic Intelligence Service Conference, Centers for Disease Control, Atlanta, GA, Apr 2009.

Public Health Preparedness Summit 2009, San Diego, CA, Feb 2009 (Roundtable Presenter).

Public Health Preparedness Summit 2008, Atlanta, GA, Feb 2008.

### **Websites**

<https://sph.tamhsc.edu/epi-bio/faculty/rebecca-fischer.html>

[https://www.researchgate.net/profile/Rebecca\\_Fischer2](https://www.researchgate.net/profile/Rebecca_Fischer2)

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